

GEOL 376 Geologic Field Methods

Instructor: John Ridley

Course Description:

- There are few projects that an Earth Scientist will undertake in a professional career that do not involve at least a component of field work, whether this is producing a map, collection of data in the field, or field sampling. This course covers field skills and techniques used in geoscience map production and field data collection. It includes exercises involving the use of remote sensing and image interpretation as aids to geological interpretation. The course constitutes preparation for the Geology Summer Field Course GEOL 436.

Learning Outcomes:

- Knowledge through practice of geoscience field data collection (geological, geophysical, hydro-geological and geomorphological), including techniques of accurate geographical position finding and recording.
- Be able to systematically and accurately report and record geoscience field data in field notebooks and on maps.
- Be able to interpret geological histories from one's own field data, including interpretation of geological cross sections.
- Have knowledge of the types of remotely sensed data and imagery (airphotos, satellite images, geophysical data) that are used to aid geological field projects and surveys.
- Be able to interpret professionally produced geoscience maps from different geological environments.